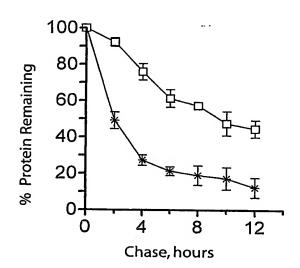




Fig. 3A

	YEP		β-arrestin2		
in a second	YFP	N. Francisco	β-arrestin2	Ub	7



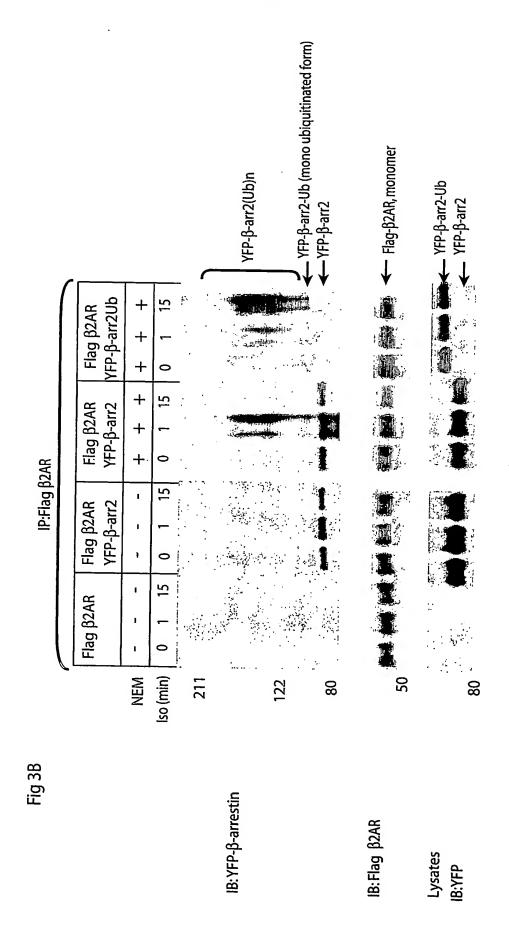


Fig. 4A

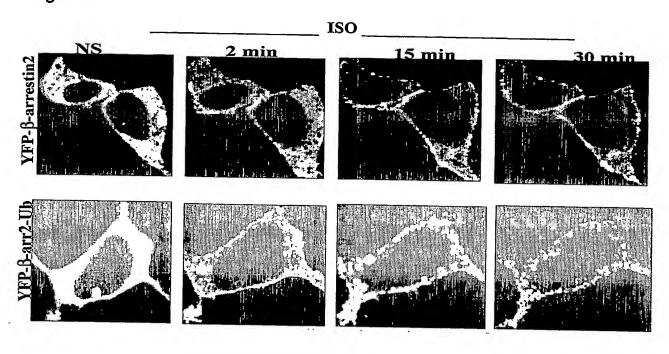
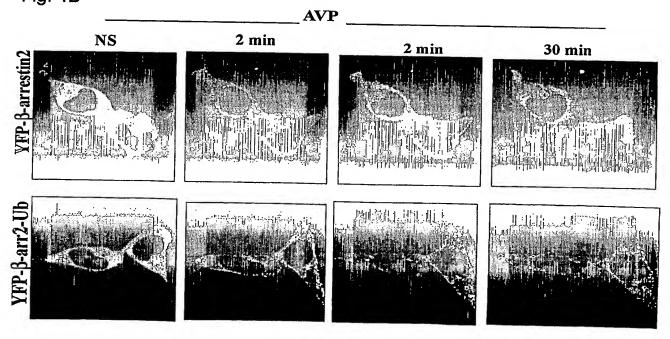


Fig. 4B



PCT/US2004/002029

Fig 5A

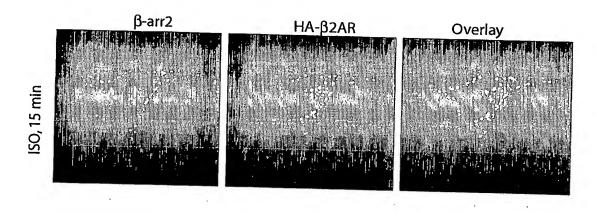


Fig 5B

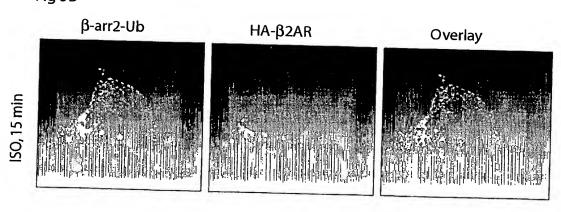


Fig. 6A

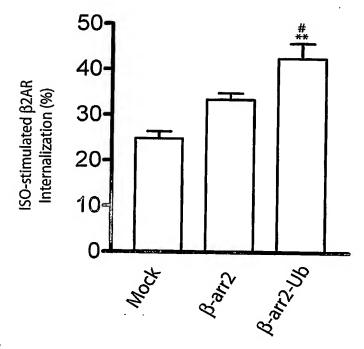


Fig. 6B

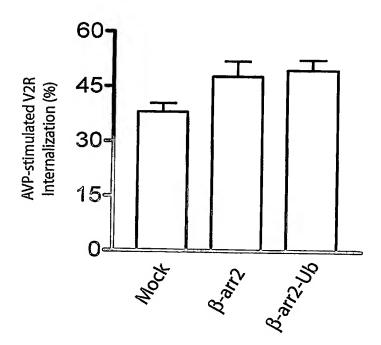


Fig. 7A

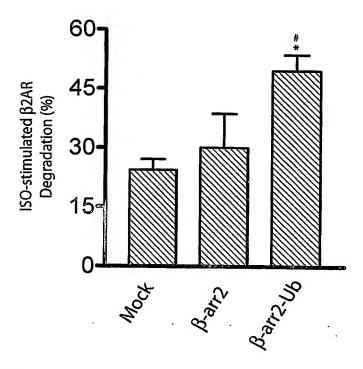


Fig. 7B

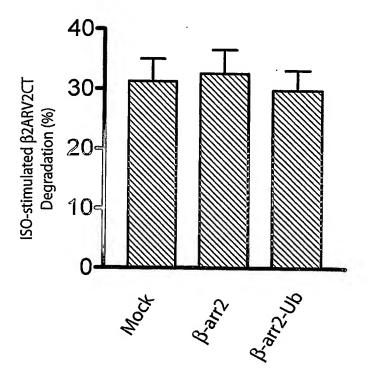


Fig.8

EYFP-BARR2-Ub 661/221 691/231 CTG CTG GAG TTC GTG ACC GCC GCG ATC ACT CTC GGC ATG GAC GAG CTG TAC AAG TCC LLEFVTAAGITLGMDELYK 751/251 GGA CTC AGA TCT CGA GCT CAA GCT TCG AAT TCT GCA GTC GAC GGT ACC ACG CGC ACC G L R S R A Q A S K S A V D G T T R 31/11 ATG GGT GAA AAA CCC GGG ACC AGG GTC TTC AAG AAG TCG AGC CCT AAC TGC AAG CTC ACC M G E K P G T R V F K K S S PNCKL 61/21 91/31 GTG TAC TTG GGC AAG CGT GAC TTT GTG GAT CAC TTG GAC AAA GTG GAT CCT GTC GAT GGT V Y L G K R D F V D H L D K D v 121/41 151/51 GTG GTG CTT GTG GAT CCT GAC TAC TTG AAG GAC CGG AAA GTG TTT GTG ACC CTC ACC TGT V V L V D P D Y L K D R K V F V T L 181/61 211/71 GCC TTC CGC TAT GGC CGA GAA GAC CTG GAT GTA CTG GGC CTG TCT TTC CGC AAA GAT CTG A F R Y G R E D L D V L G L S F R K D 241/81 271/91 TTC ATC GCC ACC TAC CAG GCC TTC CCC CCC ATG CCC AAC CCA CCT CGG CCC CCC ACC CGC FIATYQAFPPMP N P PRPPTR 301/101 331/111 CTA CAG GAC CGA CTG CTG AAG AAG TTG GGC CAG CAT GCC CAC CCC TTT TTT TTC ACA ATA Q D R L L K K L G Q H A H P F 361/121 391/131 CCC CAG AAT TTG CCT TGC TCC GTC ACA CTG CAG CCA GGA CCG GAG GAC ACA GGG AAG GCC Q N L P C S V T L Q P G P E D T G K 451/151 TGT GGA GTA GAC TTT GAG ATT CGA GCC TTC TGT GCC AAA TCT ATA GAA GAA AAA AGC CAC C G V D F E I R A F C A K S I E E K S 481/161 511/171 AAA AGG AAC TCC GTG CGG CTT ATC ATC AGA AAG GTA CAG TTT GCT CCT GAG ACA CCC GGC K R N S V R L I I R K V Q F A P E T P G 541/181 571/191 CCC CAG CCA TCA GCT GAA ACC ACA CGC CAC TTC CTC ATG TCT GAC CGG AGG TCC CTG CAC PQPSAETTRHFLMSDRR 601/201 631/211 CTA GAG GCT TCC CTG GAC AAA GAG CTG TAC TAC CAT GGG GAA CCC CTC AAT GTC AAC GTC L E A S L D K E L Y Y H G E P L N 661/221 691/231 CAC GTC ACC AAC AAT TCT GCC AAG ACC GTC AAG AAG ATC AGA GTG TCT GTG AGA CAG TAT HVTNNSAKTVKKIR 721/241 751/251 GCC GAC ATT TGC CTC TTC AGC ACC GCG CAG TAC AAG TGT CCT GTG GCT CAG CTT GAA CAA A D I C L F S T A Q Y K C P V A 781/261 811/271 GAT GAC CAG GTG TCT CCC AGT TCC ACA TTC TGC AAG GTG TAC ACC ATA ACC CCG CTG CTC D D Q V S P S S T F C K V Y T I T 841/281 871/291 AGT GAC AAC CGA GAG AAG CGT GGC CTT GCC CTT GAT GGG CAA CTC AAG CAC GAA GAC ACC S D N R E K R G L A L D G Q L K H 901/301 931/311 AAC CTG GCT TCC AGC ACC ATT GTG AAG GAG GGA GCC AAC AAG GAG GTG CTG GGA ATC CTA NLASSTIVKEGANKE Argir 961/321 991/331 GTA TCC TAC AGG GTC AAG GTG AAG CTG GTG GTG TCT CGA GGC GGG GAT GTC TCC GTG GAG V S Y R V K V K L V V S R G G D 1021/341 1051/351 CTA CCT TTC GTC CTA ATG CAC CCC AAG CCC CAC GAC CAC ATC ACC CTT CCC CGA CCC CAG LPFVLMHPKPHDHITLP R P 1081/361 1111/371 TCA GCC CCC CGG GAA ATA GAC ATC CCT GTG GAT ACC AAC CTC ATT GAA TTC GAT ACC AAC APREIDIPVDI NLIEFDIN 1171/391 TAT GCC ACA GAC GAC GAC ATC GTG TTT GAG GAC TTT GCG AGG CTT CGG CTG AAG GGG ATG Y A T D D D I V F E D F A R L R L K G M 1201/401 1231/410

Fig. 9

EYFP-BARR2-Ub48 691/231 CTG CTG GAG TTC GTG ACC GCC GCC GGG ATC ACT CTC GGC ATG GAC GAG CTG TAC AAG TCC LLEFVTAAGITLGMDELYKS 721/241 751/251 GGA CTC AGA TCT CGA GCT CAA GCT TCG AAT TCT GCA GTC GAC GGT ACC ACG CGC ACC G L R S R A Q A S K S A V D G-31/11 ATG GGT GAA AAA CCC GGG ACC AGG GTC TTC AAG AAG TCG AGC CCT AAC TGC AAG CTC ACC M G E K P G T R V F K K S S P N C 91/31 GTG TAC TTG GGC AAG CGT GAC TTT GTG GAT CAC TTG GAC AAA GTG GAT CCT GTC GAT GGT V Y L G K R D F V D H L D K V D 151/51 GTG GTG CTT GTG GAT CCT GAC TAC TTG AAG GAC CGG AAA GTG TTT GTG ACC CTC ACC TGT V V L V D P D Y L K D R K V F V T

181/61 211/71 GCC TTC CGC TAT GGC CGA GAA GAC CTG GAT GTA CTG GGC CTG TCT TTC CGC AAA GAT CTG A F R Y G R E D L D V L G L 241/81 271/91 TTC ATC GCC ACC TAC CAG GCC TTC CCC CCC ATG CCC AAC CCA CCT CGG CCC CCC ACC CGC F I A T Y Q A F P P M P N P P R P P T 301/101 331/111 CTA CAG GAC CGA CTG CTG AAG AAG TTG GGC CAG CAT GCC CAC CCC TTT TTT TTC ACA ATA L Q D R L L K K L G Q H A H P F F F 361/121 391/131 CCC CAG AAT TTG CCT TGC TCC GTC ACA CTG CAG CCA GGA CCG GAG GAC ACA GGG AAG GCC P Q N L P C S V T L Q P GPEDTGK 421/141 451/151 TGT GGA GTA GAC TTT GAG ATT CGA GCC TTC TGT GCC AAA TCT ATA GAA GAA AAA AGC CAC C G V D F E I R A F C A K S E E K 511/171 AAA AGG AAC TCC GTG CGG CTT ATC ATC AGA AAG GTA CAG TTT GCT CCT GAG ACA CCC GGC K R N S V R L I I R K V Q F A P E 541/181 571/191 CCC CAG CCA TCA GCT GAA ACC ACA CGC CAC TTC CTC ATG TCT GAC CGG AGG TCC CTG CAC PQPSAETTRHFLMSDRRS 601/201 631/211 CTA GAG GCT TCC CTG GAC AAA GAG CTG TAC TAC CAT GGG GAA CCC CTC AAT GTC AAC GTC LEASLDKELYYHGEPLNVN 691/231 CAC GTC ACC AAC AAT TCT GCC AAG ACC GTC AAG AAG ATC AGA GTG TCT GTG AGA CAG TAT H V T N N S A K T V K K I R V S V R Q Y 721/241 751/251 GCC GAC ATT TGC CTC TTC AGC ACC GCG CAG TAC AAG TGT CCT GTG GCT CAG CTT GAA CAA A D I C L F S T A Q Y K C P V A Q 781/261 811/271 GAT GAC CAG GTG TCT CCC AGT TCC ACA TTC TGC AAG GTG TAC ACC ATA ACC CCG CTG CTC D D Q V S P S S T F C R V Y T I 841/281 871/291 AGT GAC AAC CGA GAG AAG CGT GGC CTT GCC CTT GAT GGG CAA CTC AAG CAC GAA GAC ACC S D N R E K R G L A L D G Q L K H E D 901/301 931/311 AAC CTG GCT TCC AGC ACC ATT GTG AAG GAG GGA GCC AAC AAG GAG GTG CTG GGA ATC CTA N L A S S T I V K E G A N K E v 961/321 991/331 GTA TCC TAC AGG GTC AAG GTG AAG CTG GTG GTG TCT CGA GGC GGG GAT GTC TCC GTG GAG V S Y R V K V K L V V S R G G D 1021/341 1051/351 CTA CCT TTC GTC CTA ATG CAC CCC AAG CCC CAC GAC CAC ATC ACC CTT CCC CGA CCC CAG LPFVLMHPKPHDHITLP R 1111/371 TCA GCC CCC CGG GAA ATA GAC ATC CCT GTG GAT ACC AAC CTC ATT GAA TTC GAT ACC AAC S A P R E I D I P V D T N L I E F D 1141/381 1171/391 TAT GCC ACA GAC GAC ATC GTG TTT GAG GAC TTT GCG AGG CTT CGG CTG AAG GGG ATG Y A T D D D I V F E D F A R L R L R G M 1201/401 1231/410

Fig. 10

EGFP-BARR2-Ub48 661/221 691/231 CTG CTG GAG TTC GTG ACC GCC GGG ATC ACT CTC GGC ATG GAC GAG CTG TAC AAG TCC LLEFVTAAGITLGMDELYKS 721/241 751/251 GGA CTC AGA TCT CGA GCT CAA GCT TCG AAT TCT GCA GTC GAC GGT ACC ACG CGC ACC G L R S R A Q A S K S A V D G Ŧ 31/11 ATG GGT GAA AAA CCC GGG ACC AGG GTC TTC AAG AAG TCG AGC CCT AAC TGC AAG CTC ACC MGEKPGTRVFKKSSPNCKL 91/31 GTG TAC TTG GGC AAG CGT GAC TTT GTG GAT CAC TTG GAC AAA GTG GAT CCT GTC GAT GGT V Y L G K R D F V D H L D K V D P V 151/51 GTG GTG CTT GTG GAT CCT GAC TAC TTG AAG GAC CGG AAA GTG TTT GTG ACC CTC ACC TGT V V L V D P D Y L K D R K V F 181/61 211/71 GCC TTC CGC TAT GGC CGA GAA GAC CTG GAT GTA CTG GGC CTG TCT TTC CGC AAA GAT CTG A F R Y G R E D L D V L G Ľ S F 241/81 271/91 TTC ATC GCC ACC TAC CAG GCC TTC CCC CCC ATG CCC AAC CCA CCT CGG CCC CCC ACC CGC FIATYQAFPFMPNPPRPP 301/101 331/111 CTA CAG GAC CGA CTG CTG AAG AAG TTG GGC CAG CAT GCC CAC CCC TTT TTT TTC ACA ATA LQDRLLKKLGQHAHPFFFT 361/121 391/131 CCC CAG AAT TTG CCT TGC TCC GTC ACA CTG CAG CCA GGA CCG GAG GAC ACA GGG AAG GCC PQNLPCSVTLQPGPEDTGKA 421/141 451/151 TGT GGA GTA GAC TTT GAG ATT CGA GCC TTC TGT GCC AAA TCT ATA GAA GAA AAA AGC CAC C G V D F E I R A F C A K S I E E K S 481/161 511/171 511/171 AAA AGG AAC TCC GTG CGG CTT ATC ATC AGA AAG GTA CAG TTT GCT CCT GAG ACA CCC GGC K R N S V R L I I R K V Q F A P E 541/181 571/191 CCC CAG CCA TCA GCT GAA ACC ACA CGC CAC TTC CTC ATG TCT GAC CGG AGG TCC CTG CAC PQPSAETTRHFLMSDRRSL 601/201 631/211 CTA GAG GCT TCC CTG GAC AAA GAG CTG TAC TAC CAT GGG GAA CCC CTC AAT GTC AAC GTC LEASLDKELYYHGEP 661/221 691/231 CAC GTC ACC AAC AAT TCT GCC AAG ACC GTC AAG AAG ATC AGA GTG TCT GTG AGA CAG TAT HVTNNSAKTVKK IRVS R 751/251 721/241 GCC GAC ATT TGC CTC TTC AGC ACC GCG CAG TAC AAG TGT CCT GTG GCT CAG CTT GAA CAA A D I C L F S T A Q Y K C P V A Q L 781/261 811/271 GAT GAC CAG GTG TCT CCC AGT TCC ACA TTC TGC AAG GTG TAC ACC ATA ACC CCG CTG CTC DDQVSPSSTFCKVYTITPLL 841/281 871/291 AGT GAC AAC CGA GAG AAG CGT GGC CTT GCC CTT GAT GGG CAA CTC AAG CAC GAA GAC ACC S D N R E K R G L A L D G Q L K H E D 901/301 931/311 AAC CTG GCT TCC AGC ACC ATT GTG AAG GAG GGA GCC AAC AAG GAG GTG CTG GGA ATC CTA LASSTIVKEGANKEVLGI 961/321 991/331 GTA TCC TAC AGG GTC AAG GTG AAG CTG GTG GTG TCT CGA GGC GGG GAT GTC TCC GTG GAG V S Y R V K V K L V V S R G G D V S 1021/341 1051/351 CTA CCT TTC GTC CTA ATG CAC CCC AAG CCC CAC GAC CAC ATC ACC CTT CCC CGA CCC CAG PFVLMHPKPHDHITLP 1081/361 1111/371 TCA GCC CCC CGG GAA ATA GAC ATC CCT GTG GAT ACC AAC CTC ATT GAA TTC GAT ACC AAC S A P R E I D I P V D T N L 1141/381 1171/391 TAT GCC ACA GAC GAC GAC ATC GTG TTT GAG GAC TTT GCG AGG CTT CGG CTG AAG GGG ATG Y A T D D D I V F E D F A R L R L K G M 1201/401 1231/410

Fig. 11A Human G Protein Coupled Receptor Family (Receptors known as of January, 1999)

LIGAND	NUMBER	TISSUE	PHYSIOLOGY	THERAPEUTICS
Acetylcholine (muscarinic & nicotinic)	iic) 5	Brain, Nerves, Heart	Neurotransmitter	Acuity, Alzheimer's
Alpha Adrenoceptors  Beta Adrenoceptors	3 6	Brain, Kidney, Lung Kidney, Heart	Gluconeogenesis Muscle Contraction	Diabetes, Cardiovascular Cardiovascular. Respiratory
·Dopamine ·Histamine	2 v	Brain, Kidney, GI Vascular. Heart. Brain	Neurotransmitter Vascular Permeahility	Cardiovascular, Parkinson's
·Serotonin (5-HT) •Peptide	16	Most Tissues	Neurotransmitter	Depression, Insomnia, Analgesic
Angiotensin	7 -	Vascular, Liver, Kidney	Vasoconstriction	Cardiovascular, Endocrine
·bradykinin ·C5a anaphylatoxin		Liver, Blood Blood	Vasodilation, Immune System	Anti-inflammatory, Asthma Anti-inflammatory
·Fmet-leu-phe	m ·	Blood	Chemoattractant	Anti-inflammatory
Interleukin-8		Blood	Chemoattractant	Anti-inflammatory
Orexin	2 0	Brain	Chemoattractant Fat Metabolism	Antı-ıntlammatory Obesity
·Nociceptin	-	Brain	Bronchodilator, Pain	Airway Diseases, Anesthetic
·CCK (Gastrin)	7	Gastrointestinal	Motility, Fat Absorption	Gastrointestinal, Obesity, Parkinson's
·Endothelin	2	Heart, Bronchus, Brain	Muscle Contraction	Cardiovascular, Respiratory
·Melanocortin	5	Kidney, Brain	Metabolic Regulation	Anti-inflammatory, Analgesics
·Neuropeptide Y	٧	Nerves, Intestine, Blood	Neurotransmitter	Behavior, Memory, Cardiovascular
·Neurotensin	Н	Brain,	CNS	Cardiovascular, Analgesic

·Opioid	n	Brain,	CNS	Depression, Analgesic
·Somatostatin	5	Brain, Gastrointestinal	Neurotransmitter	Oncology, Alzheimer's
·Tachykinin				3
(Substance P, NKA <sub>1</sub> )	m	Brain Nerves	Neurohormone	Depression, Analgesic
·Thrombin	3	Platelets, Blood Vessels	Coagulation	Anti-coagulant, Anti-
				inflammatory
·Vasopressin-like	4	Arteries, Heart, Bladder	Water Balance	Anti-diuretic, Diabetic Complications
·Galanin	1	Brain, Pancreas	Neurotransmitter	Analgesics, Alzheimer's
·Hormone protein				
·Follicle stimulating hormone	-	Ovary, Testis	Endocrine	Infertility
·Lutropin-choriogonadotropic	1	Ovary, Testis	Endocrine	Infertility
·Thyrotropin	1	Thyroid	Endocrine	Thyroidism, Metabolism
·(Rhod)opsin				
·Opsin	5	Eye	Photoreception	Ophthalmic Diseases
·Olfactory	$4(\sim 1000)$	Nose	Smell	Olfactory Diseases
·Prostanoid				
·Prostaglandin	5	Arterial, Gastrointestinal	Vasodilation, Pain	Cardiovascular, Analgesic
·Lysophosphatidic Acid	2	Vessels, Heart, Lung	Inflammation	Cancer, Anti-Inflammatory
·Sphingosine-1-phosphate	2	Most Cells	Cell proliferation	Cancer
·Leukotriene	<b>—</b>	White Blood Cells, Bronchus	Inflammation	Asthma, Rheumatoid Arthritis
·Prostacyclin		Arterial, Gastrointestinal	Platelet Regulation	Cardiovascular
·Thromboxane		Arterial, Bronchus	Vasoconstriction	Cardiovascular, Respiratory
·Nucleotide-like				
·Adenosine	4	Vascular, Bronchus	Multiple Effects	Cardiovascular, Respiratory
·Purinoceptors	4	Vascular, Platelets	Relaxes Muscle	Cardiovascular, Respiratory
·Cannabis	7	Brain	Sensory Perception	Analgesics, Memory
·Platelet activating factor		Most Peripheral Tissues	Inflammation	Anti-inflammatory, Anti-asthmatic

Growth hormone- inhibiting factor  -Secretin  -Calcitonin  -Corticotropin releasing factor/urocortin  -Gastric inhibitory peptide (GIP)  -Glucagon  -Glucagon-like Peptide 1 (GLP-1)  -Growth hormone-releasing hormone  -Parathyroid hormone  -Parathyroid hormone  -Parathyroid colutamate  -Metabotropic Glutamate  -GABA <sub>B</sub>	Extracellular Calcium Sensing
ting factor 1  1  1  (GLP-1) 1  1  1  7  7	nsing 1
Gastrointestinal Brain, Eye, Pituitary Gastrointestinal, Heart Bone, Brain Adrenal, Vascular, Brain Adrenals, Fat Cells Liver, Fat Cells Liver, Fat Cells Brain Brain Bone, Kidney Brain, Pancreas, Adrenals Gastrointestinal Brain Brain Brain	Parathyroid, Kidney, GI Tract Calcium Regulation
Neuroendocrine Neuroendocrine Neuroendocrine Calcium Resorption Neuroendocrine Sugar/Fat Metabolism Gluconeogenesis Gluconeogenesis Calcium Regulation Metabolism Motility Sensory Perception Neurotransmitter	Calcium Regulation
Obesity, Gastrointestinal Obesity, Gastrointestinal Osteoporosis Stress, Mood, Obesity Diabetes, Obesity Cardiovascular Cardiovascular, Diabetes, Obesity Growth Regulation Osteoporosis Metabolic Regulation Gastrointestinal Hearing, Vision	Mood Disorders Cataracts, GI Tumors

## Fig. 11B

## G protein-coupled receptors:

(Division into Class A Or Class B)

1. A1 adenosine receptor [Homo sapiens]. ACCESSION AAB25533 npivyaf riqkfrvtfl kiwndhfrcq pappidedlp eerpdd Class A

2. adrenergic, alpha -1B-, receptor [Homo sapiens]. ACCESSION NP\_000670 npiiypcsskefkrafvrilgcqcrgrgrrrrrrrrrlggcaytyrpwtrggslersqsrkdslddsgsclsgsqrtlpsaspspgylgr gapppvelcafpewkapgallslpapeppgrrgrhdsgplftfklltepespgtdggasnggceaaadvangqpgfksnmpla pgqf

Class A

3. adrenergic receptor alpha-2A [Homo sapiens]. ACCESSION AAG00447 npviytifnhdfrrafkkilcrgdrkriv

Class A

4. alpha-2B-adrenergic receptor - human. ACCESSION A37223 npviytifnqdfrrafrrilcrpwtqtaw

Class A

5. alpha-2C-adrenergic receptor - human. ACCESSION A31237 npviytvfnqdfrpsfkhilfrrrrgfrq

Class A

6. beta-1-adrenergic receptor [Homo sapiens]. ACCESSION NP\_000675 npiiycrspdfrkafqgllccarraarrrhathgdrprasgclarpgpppspgaasdddddvvgatpparllepwagcnggaa adsd ssldepcrpgfaseskv

Class A

beta-2 adrenergic receptor. ACCESSION P07550
 npliyerspdfriafqellclrrsslkaygngyssngntgeqsgyhveqekenkllcedlpgtedfvghqgtvpsdnidsqgrncstndsll

Class A

8. **dopamine receptor D1** [Homo sapiens]. ACCESSION NP\_000785 npiiyafnadfrkafstllgcyrlcpatnnaietvsinnngaamfsshheprgsiskecnlvyliphavgssedlkkeeaagiarpl eklspalsvildydtdvslekiqpitqngqhpt

Class A

9. **D(2) dopamine receptor.** ACCESSION P14416 npiiyttfniefrkaflkilhc

Class A

10. d3 dopamine receptor - human. ACCESSION G01977 npviyttfniefrkaflkilsc

Class A

dopamine receptor D4 - human. ACCESSION DYHUD4 11. npviytvfnaefrnvfrkalracc

Class A

dopamine receptor D5 - human. ACCESSION DYHUD5 12. npviya fnad fqkv faq Ilgcshfcsrt pvetvnisneli synqdiv fhkeia aayihmm pnavt pgnrevdnde eeg pfdrming synqdiv flooring all synqdiv flooring syndigeness of the following syndigeness of the folfqiyqtspdgdpvaesvweldcege is ldkitpftpngfh

Class A

muscarinic acetylcholine receptor M1 [Homo sapiens]. ACCESSION NP\_000729 **13**. npmcyalenka frdt frllller wdkrrwrkipkrpgsvhrtpsrqc

Class A

muscarinic acetylcholine receptor M2 [Homo sapiens]. ACCESSION NP\_000730 14. npacyalenatfkktfkhllmchyknigatr

Class A

muscarinic acetylcholine receptor M3 [Homo sapiens]. 15. npv cyalcn kt frtt fkmlll c qcd kk krrkq qyqqrqs vifh krapeqalClass A

muscarinic acetylcholine receptor M4 [Homo sapiens]. ACCESSION NP\_000732 16. npacyalcnatfkktfrhlllcqyrnigtar

Class A

m5 muscarinic receptor. locus HUMACHRM ACCESSION AAA51569 17. npicyal cnrtfrktfkmlllcrwkkkkveeklywqgnsklpClass A

5-hydroxytryptamine (serotonin) receptor 1A [Homo sapiens]. ACCESSION 18. **BAA90449** npviyayfnkdfqnafkkiikckf Class A

5-hydroxytryptamine (serotonin) receptor 1B [Homo sapiens]. ACCESSION 19. BAA94455 npiiytmsnedfkqafhklirfkcts Class A

20. 5-hydroxytryptamine (serotonin) receptor 1E [Homo sapiens]. ACCESSION BAA94458 npllytsfnedfklafkklircre
Class A

21. OLFACTORY RECEPTOR 6A1. ACCESSION 095222 npiiyclrnqevkralccilhlyqhqdpdpkkgsrnv
Class A

22. OLFACTORY RECEPTOR 2C1. ACCESSION 095371 npliytlrnmevkgalrrllgkgrevg
Class A

- 23. angiotensin receptor 1 [Homo sapiens]. ACCESSION NP\_033611 nplfygflgkkfkryflqllkyippkakshsnlstkmstlsyrpsdnvssstkkpapcfeve Class B
- 24. angiotensin receptor 2 [Homo sapiens]. ACCESSION NP\_000677 npflycfvgnrfqqklrsvfrvpitwlqgkresmscrkssslremetfvs

  Class B
- 25. interleukin 8 receptor beta (CXCR2) [Homo sapiens]. ACCESSION NM\_001557 NPLIYAFIGQKFRHGLLKILAIHGLISKDSLPKDSRPSFVGSSSGHTSTTL Class B
- 26. cx3c chemokine receptor 1 (cx3cr1) (fractalkine receptor)
  ACCESSION P49238
  npliyafagekfrrylyhlygkclavlcgrsvhvdfsssesqrsrhgsvlssnftyhtsdgdallll
  Class B
- 27. neurotensin receptor human. ACCESSION S29506
  n pilynlvsanfrhiflatlaclcpvwrrrrkrpafsrkadsvssnhtlssnatretly
  Class B
- 28. SUBSTANCE-P RECEPTOR (SPR) (NK-1 RECEPTOR) (NK-1R). ACCESSION P25103 npiiycclndrfrlgfkhafrccpfisagdyeglemkstrylqtqgsvykvsrlettistvvgaheeepedgpkatpssldltsncssrsdskt mtesfsfssnvls

Class B

- 29. vasopressin receptor type 2 [Homo sapiens]. ACCESSION AAD16444 npwiyasfsssvsselrsllccargrtppslgpqdescttassslakdtss

  Class B
- 30. thyrotropin-releasing hormone receptor human. ACCESSION JN0708 npviynlmsqkfraafrklcnckqkptekpanysvalnysvikesdhfsteldditvtdtylsafkvsfddtclasevsfsqs Class B

- 31. oxytocin receptor human. ACCESSION A55493
  npwiymlftghlfhelvqrflccsasylkgrrlgetsaskksnsssfvlshrsssqrscsqpsta
  Class B
- 32. neuromedin U receptor 1 [Homo sapiens]. ACCESSION AAG24793 npvlyslmssrfretfqealclgacchrlrprhsshslsrmttgstlcdvgslgswvhplagndgpeaqqetdps Class B
- 33. gastrin receptor. ACCESSION AAC37528
  nplvycfmhrrfrqacletcarccprpprarpralpdedpptpsiaslsrlsyttistlgpg
  Class B
- 34. galanin receptor 3 [Homo sapiens]. ACCESSION 10879541
  nplvyalasrhfrarfirlwpcgrrrrhrarralrrvrpassgppgcpgdarpsgrllagggqgpepregpvhggeaargpe
  Class A
- 35. edg-1 human. ACCESSION A35300
  npiiytltnkemrrafirimscckcpsgdsagkfkrpiiagmefsrsksdnsshpqkdegdnpetimssgnvnsss
  Class A
- 36. central cannabinoid receptor [Homo sapiens]. ACCESSION NP\_057167 npiiyalrskdlrhafrsmfpscegtaqpldnsmgdsdclhkhannaasvhraaescikstvkiakvtmsvstdtsaeal Class A
- 37. delta opioid receptor human. ACCESSION I38532 npvlyafldenfkrefrqlcrkpcgrpdpssfsrpreatarervtactpsdgpgggraa Class A
- 38. proteinase activated receptor 2 (PAR-2) human. ACCESSION P55085 dpfvyyfvshdfrdhaknallcrsvrtvkqmqvsltskkhsrksssyssssttvktsy
  Class B
- 39. vasopressive intestinal peptide receptor (VIPR) rat. ACCESSION NM\_012685
  NGEVQAELRRKWRRWHLQGVLGWSSKSQHPWGGSNGATCSTQVSMLTRVSPSA
  RRSSSFQAEVSLV
  Class B